

Who is DDSD?

- Medium-Sized Wastewater
 Treatment Plant: Average Flow
 13 MGD
- One of the largest industrial recycled water plants in California
- 2011 Award:
 - 7th Year Platinum Peak Performance Award - achieved by less than 1% of wastewater treatment operations of same size or smaller nation-wide.
- Board of Directors is interested in creating new jobs and leading regional solutions





Who Am I?



Diablo Innovation Alliance

SF-EBMUD Intertie



Recycled Water Projects



Los Vaqueros Reservoir

> Freeport Regional Water Project

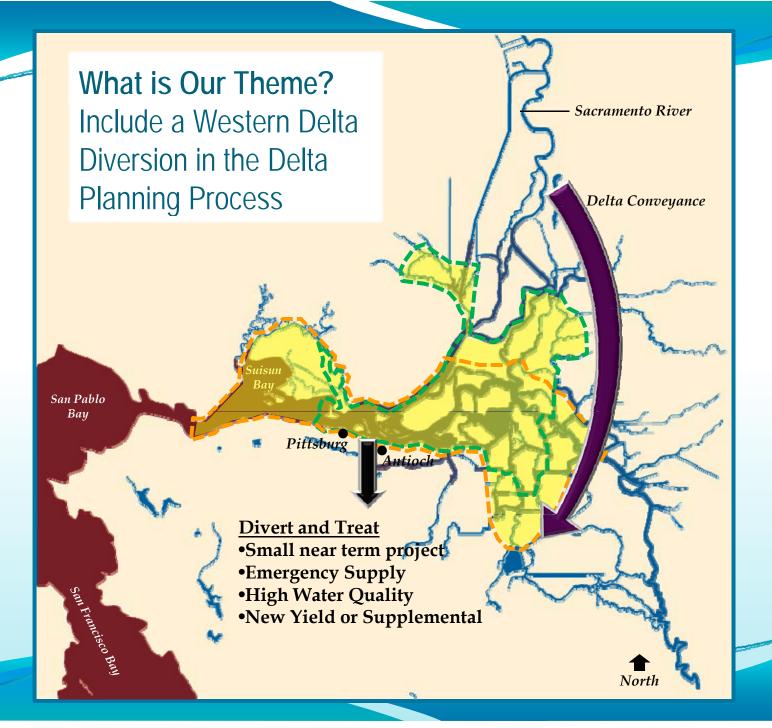


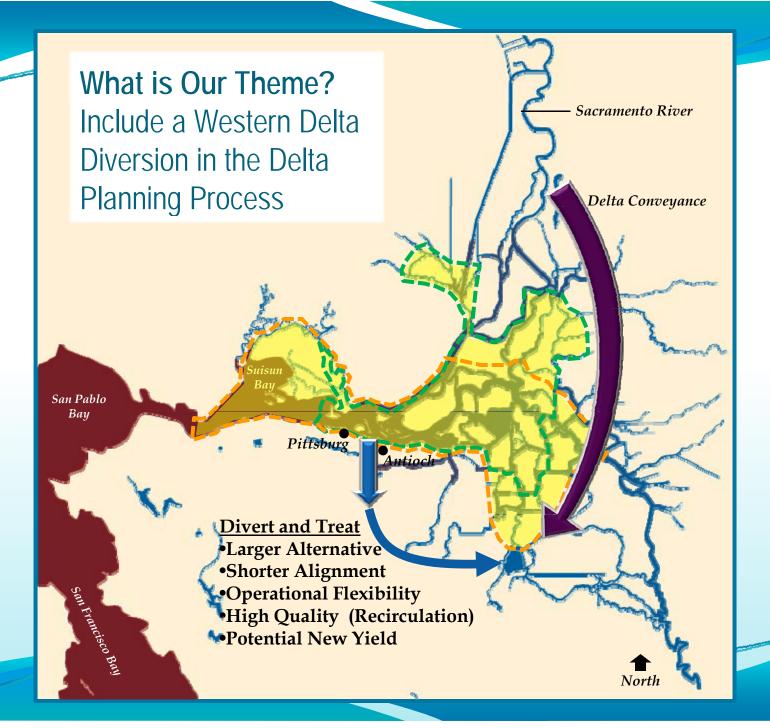
4 Coalitions with 40 Agencies

- Regional Water Recycling
- Regional Biosolids
- East County IRWMP
- Household Hazardous Waste

When has DDSD been in the Delta Planning Process?

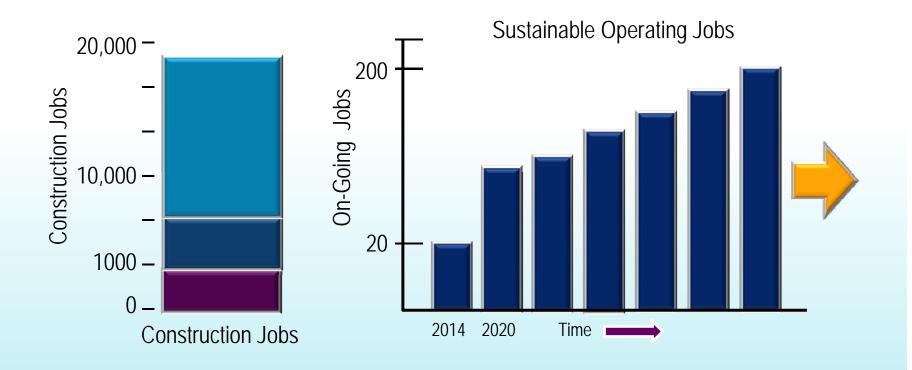








This Western Delta Diversion Idea Creates Sustainable Jobs





Regional Assets: Water Technology Companies



Regional Assets: Research Institutes And Universities





Regional Assets: Water Technology Companies



Regional Assets: Institutes And Un





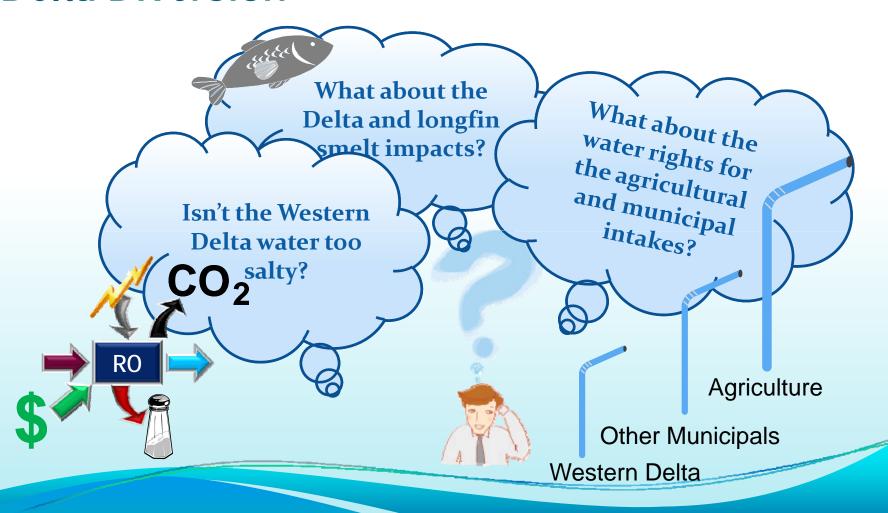
"The reality of the state economy is that it's made up of regional economies. And, if we're going to optimize California's

economic performance, we've got to work within the existing regional collaborative frameworks and recognize the relative strengths of each of the regions....

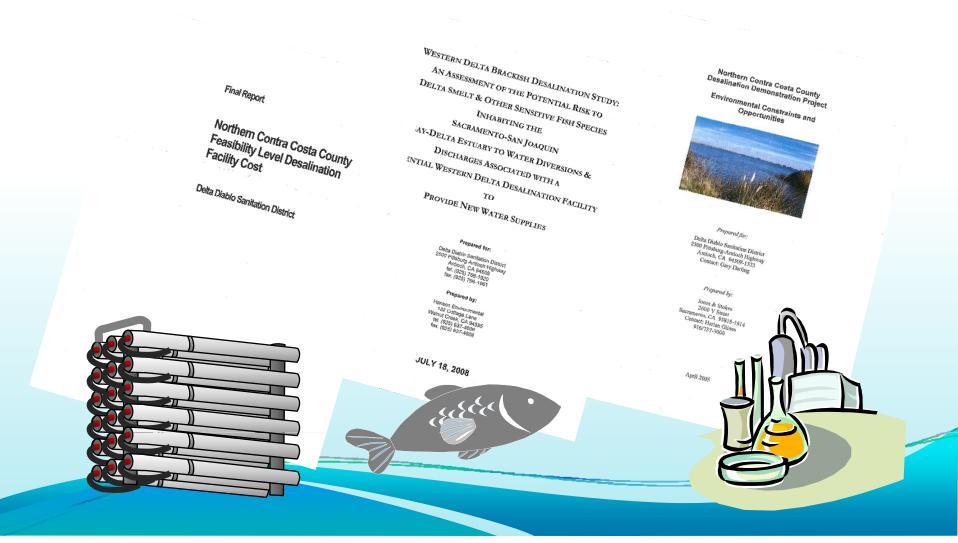
"Our strengths vary from region to region based on the industry clusters of each individual economy. The Greater East Bay has a wealth of leading university and research institutes upon which to build a competitive advantage in clean energy and water technology."

Sunne Wright McPeak, President and CEO, California Emerging Technology Fund, and Former Secretary of California Business, Transportation and Housing Agency

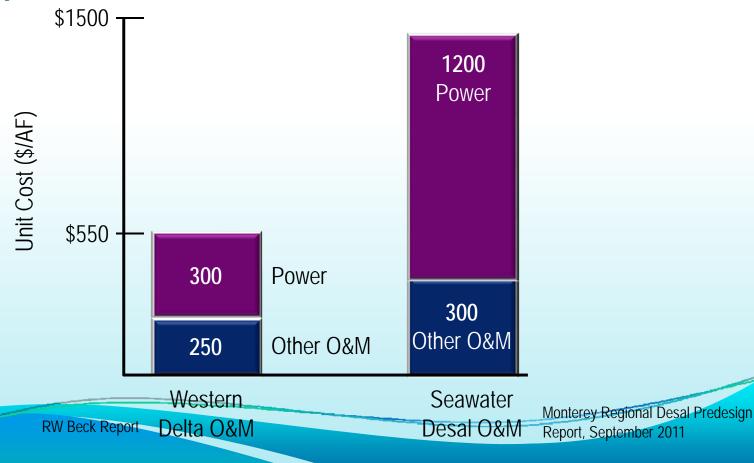
Three Common Questions about a Western Delta Diversion



We have studied these issues at smaller scale

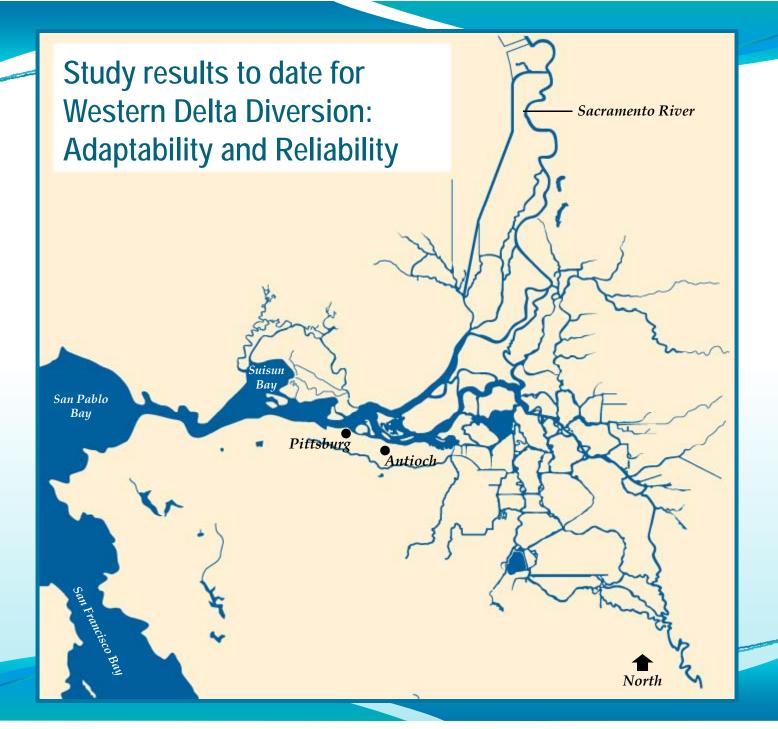


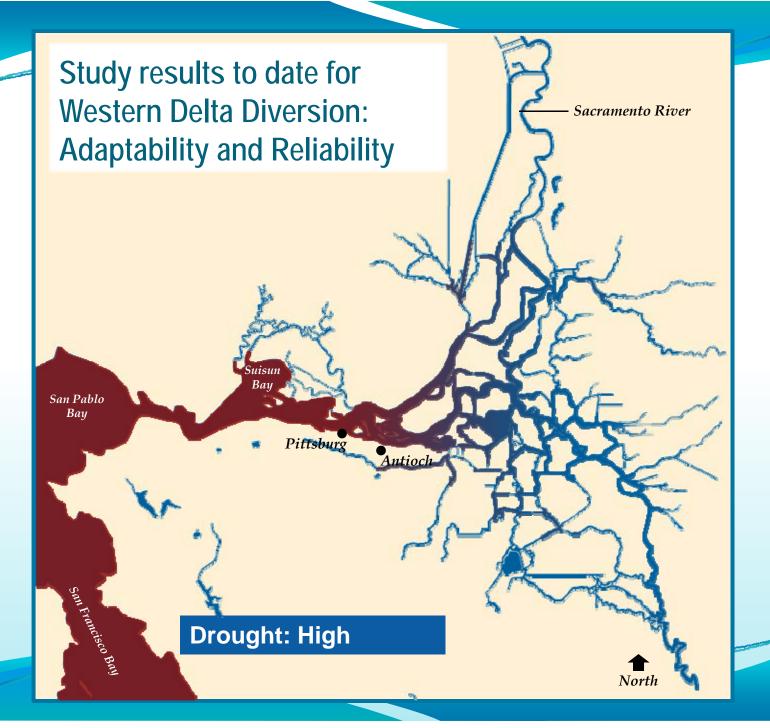
Study results to date for Western Delta Diversion: Costs to desalinate brackish water 1/3 of cost for seawater

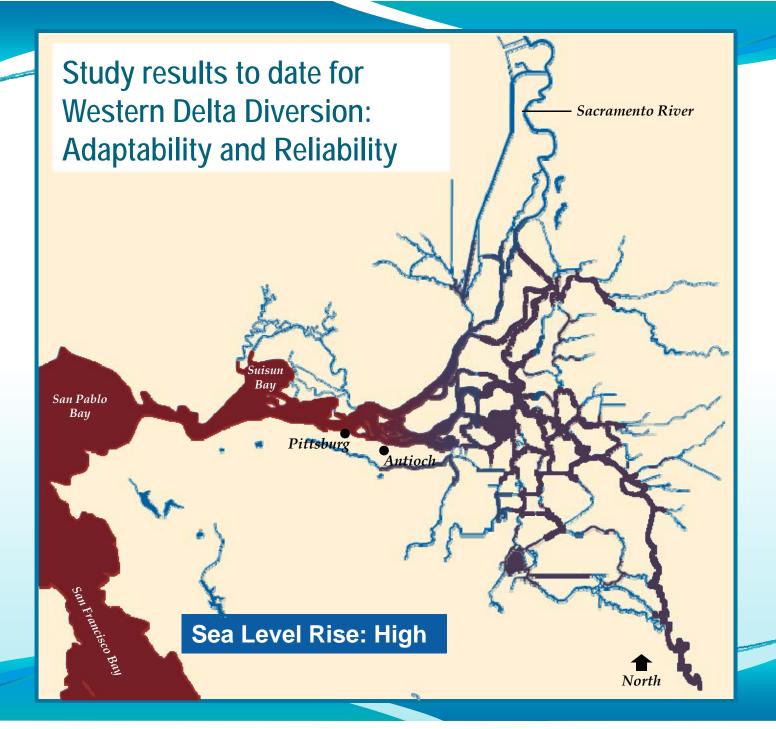


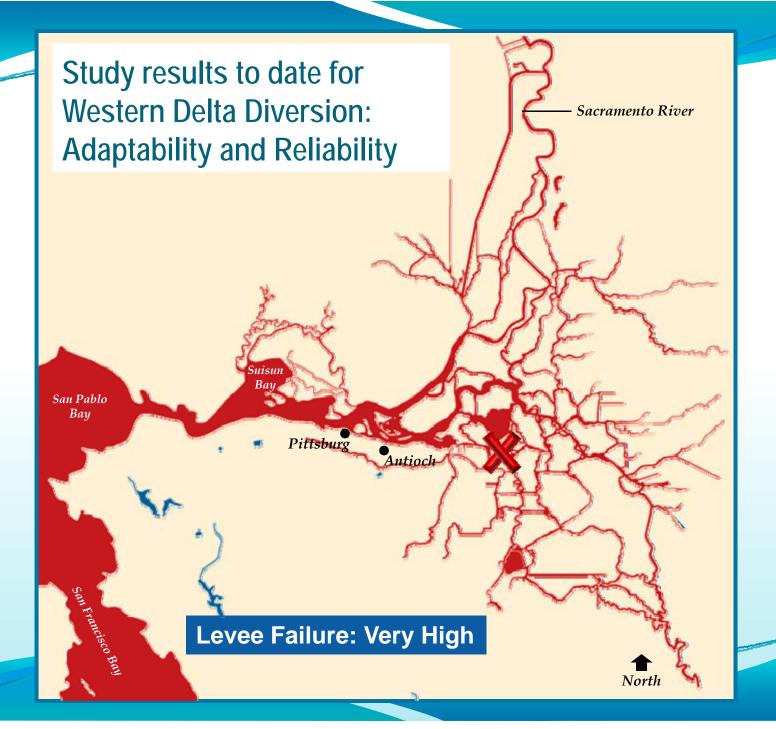
Costs to desalinate decreasing

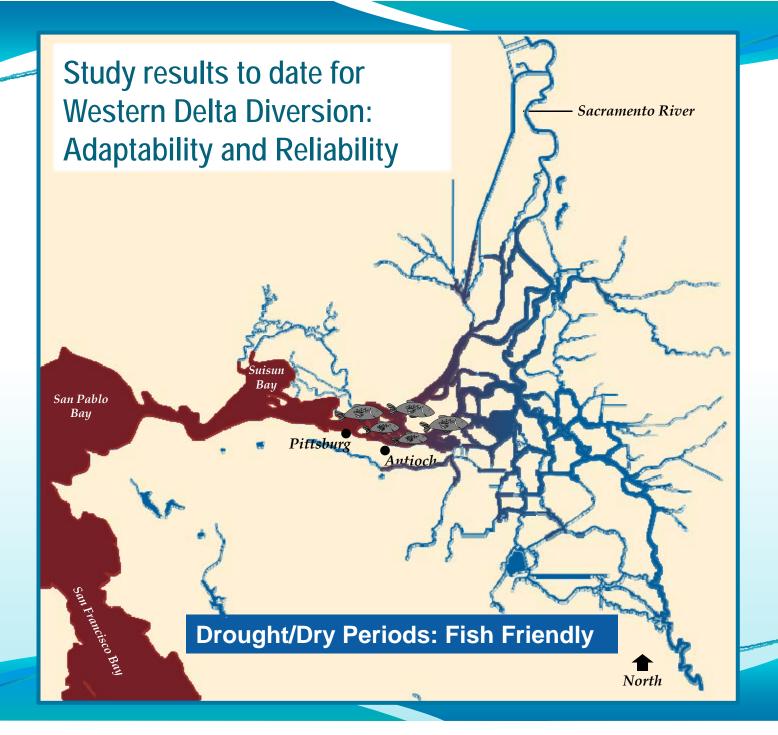
- REPUBLIC of SINGAPORE, July 12, 2011, Siemens announced a new process reducing desalting energy by over 50% compared to best available technology
- PERTH, AUSTRALIA, Sept. 4, 2011 -- Australia's first dedicated desalination research facility opened ...will provide a venue for researching and developing new technologies for desalination, including the use of nanotechnology, solar power, recycling of desalination membranes, and monitoring of marine life.







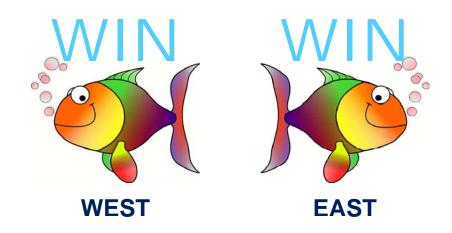




Western Delta Diversion Alternative:

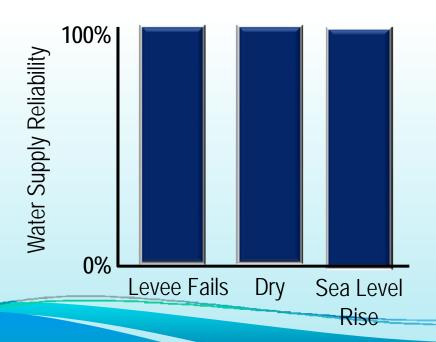
zoned industrial land is available



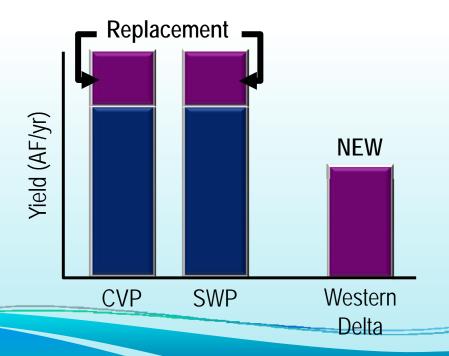


Western Delta Intake Provides: Adaptability for a Changing Delta Operational Flexibility to Avoid Fish Impacts

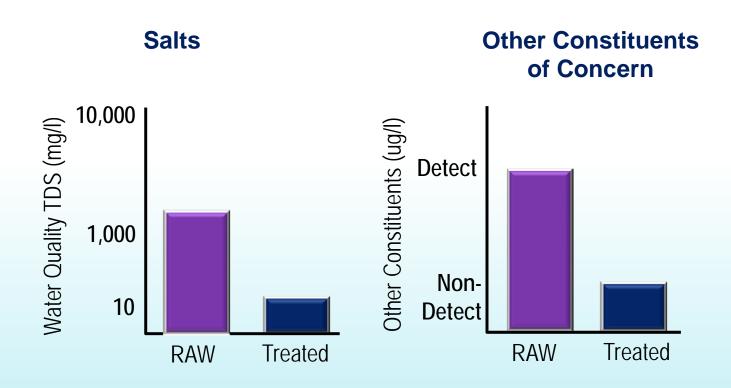
Reliability



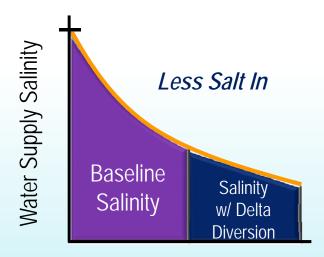
Yield



Water Quality

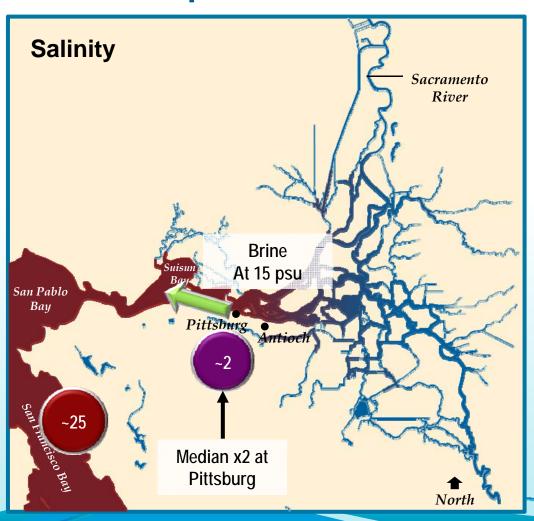


Agricultural Salts

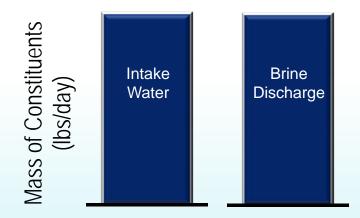




Brine disposal can be addressed effectively



Constituents of Concern (Metals, Pharmaceuticals, etc.)



- No increase in mass loading
- Multi-port diffusers for rapid mixing required

Agenda Item 7 PowerPoint Presentation **BDCP**: a Western Delta Alternative SACRAMENTO **Benefits** Shorter conveyance • Upland soils vs. Delta peat soils Intake in much deeper water with strong flows Challenges Is it "fish friendly" with acceptable costs? Is it an emergency relief measure only? Is it an independent alternative?

Source: Initial Dual Conveyance Assessment - May 2008

California Department of Water Resources

Bay-Delta Office

DELTA-MENDOTA CANAL

Recommended Next Steps Delta Stewardship Council:

- Dedicate funds to the Science Program to independently study the fisheries issues
- Include in the emergency response planning
- List the project in the Council's near-term actions and funding plan
- Include in the Delta Plan as an adaptive management project
- Submit it to BDCP as an alternative to big conveyance

